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ECOLOGICAL STATE OF THE CHEREK-BEZENGIYSKY RIVER AND ITS TRIBUTARIES: POLLUTION ANALYSIS

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Abstract. *Seasonal studies of the dispersed aquatic environment and monitoring of the Cherek-Bezengi River's quality were conducted, based on the content of heavy metals and their compounds, to assess its use as drinking water and for food production. The Cherek-Bezengi River was found to be moderately polluted, with manganese and some metal compounds exceeding permissible concentrations throughout its course, while nitrogen and its compounds were within acceptable limits. These results allow the river's water to be recommended for use only after treatment.*

Keywords: monitoring, dispersion, system, metals, MAC, hydraulic system

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	6,5-8,5	6,5-8,5	6,0-9,0
	1000	500	1000
c	0,75	0,25	20,0
Cd	180	0,005	0,01
Mg	40	50	40-50
Na	120	200	120
K	50	20	50
Cu	0,1	0,001	1,0
Mn	0,1	0,3	0,3
Pb	0,006	0,03	0,1
Zn	1,0	0,01	0,01
As	0,05	0,05	0,05
NO ₃ ⁻	10,0	40,0	45,0
NO ₂ ⁻	0,050	0,080	0,080
NH ₄ ⁺	0,5-2,0	0,4	2,00
SO ₄ ²⁻	100	100	500
Cl ⁻	300	300	300-350

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Zn, Mn),

(Cd, Pb,

36,2
(0,3-0,4 /)

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14 ° 20-22 °

(2,36 /),

[4].

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	8,2	8,4	6,9–7,0
Cr ³⁺	0,0096	0,0099	0,02
Ni ²⁺	0,0139	0,0123	0,01
Mo ²⁺	0,014	0,050	0,001
Mn ²⁺	0,027	0,017	0,016
Ag ⁺	0,0002	0,0002	–
Cd ²⁺	0,00029	0,0003	0,001
Pb ²⁺	0,0066	0,0052	0,006
Zn ²⁺	0,0025	0,002	0,001
NH ₄ ⁺	0,0034	0,0054	0,005
NO ₂ ⁻	0,0039	0,0011	0,0008
NO ₃ ⁻	0,003	0,008	0,004

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